



## 5-In-1 Multi-Band Antenna Specification

( Model: SPK-GGSMANT-002 )



### ( I ) Product Overview

#### ( i ) Dielectric Antenna

Center Frequency (MHz): 1575.42±3

VSWR: 1.5:1

Bandwidth (MHz): ±5

Impedance (Ω): 50

Peak Gain >3dBi Based on 7cm×7cm ground plane

Gain Coverage >-4dBi at -90°<0 <+90°(over 75% Volume)

Polarization: RHCP

#### ( ii ) GSM Antenna

Center Frequency (MHz): 850/900/1800/1900/2100

Typical Gain: 2dBi+/-1dBi@850MHz ; 2dBi+/-1dBi@900MHz

1dBi+/-1dBi@1800MHz;1dBi+/-1dBi@1900MHz

VSWR: 2.0:1

Impedance (Ω): 50

#### ( iii ) LNA/Filter

LNA Gain (Without Cable) : 28 dBi Typical

Noise Figure (dB): 1.5

Filter Out Band Attenuation (f0=1575.42 MHz)

7dB Min f0+/-20MHz ;

20dB Min f0+/-50MHz;

30dB Min f0+/-100MHz

VSWR <2.0

DC Voltage (V): 2.7/3.0/3.3/5.0/3.0 to 5.0 etc.

DC Current (mA): 11 Max

#### ( iv ) Mechanical



# SPK ELECTRONICS CO., LTD.

Weight (gram) <240

Size (mm):  $\Phi 80 \times 15$

Cable GPS (m): RG174 3 etc.

GSM (m): RG174 3 etc.

Connector GPS: SMA etc.

GSM: SMA etc.

Mounting: Adhesive

Housing: Black

(v) **Environmental**

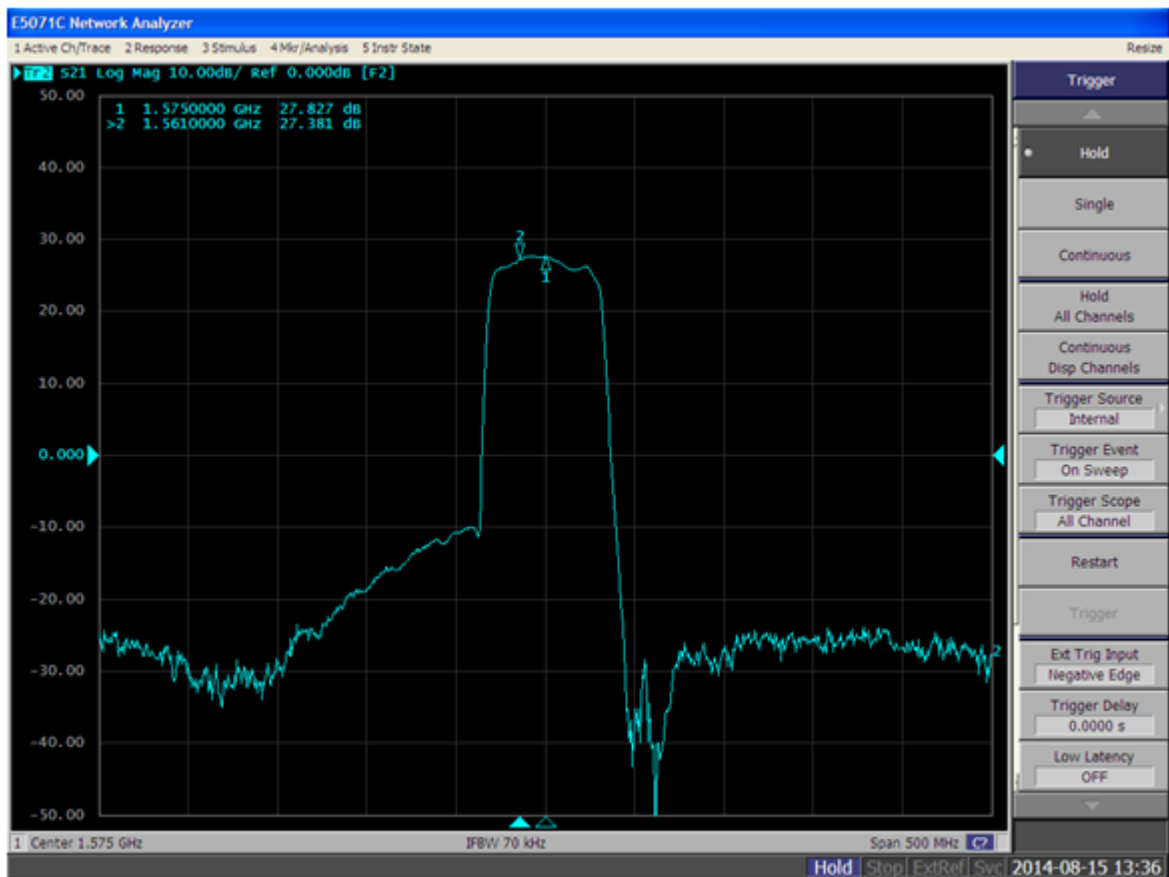
Working Temp:  $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

Storage Temp:  $-45^{\circ}\text{C} \sim +100^{\circ}\text{C}$

Vibration: Sine sweep1g(0-p)10~50~10Hz each axis

Humidity: Humidity95%~100%RH

Weatherproof: 100%Waterproof



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